

001566708

AP20 Rec'd PENTAGON 01 FEB 2006

Article 34 Amendment

10/1566708

WP20 Rec'd PCT/PCTO 01 FEB 2006

CLAIMS

1. A fluid spray head comprising an expulsion channel (5) provided with a spray orifice (1) and a spray profile (10) formed in an end wall of said spray head, said spray profile (10) comprising preferably non-radial spray channels (11) opening out to a central spray chamber (12) disposed directly upstream from said spray orifice (1), an insert (20) being disposed in said expulsion channel (5) so as to form a cover for said spray profile (10), the central axis (X) of said insert (20) being substantially identical to the central axis (Y) of said expulsion channel (5), said spray head including centering means for centering said insert (20), the spray head being characterized in that said expulsion channel (5) includes said centering means for centering said insert (20), and in that said centering means are formed in the proximity of the spray profile (10).
2. A head according to claim 1, in which said centering means comprise at least one projection (30), and preferably three, the diameter of the inscribed circle defined by said projections being substantially identical to the diameter of the insert (20).
3. A head according to claim 2, in which the expulsion channel (5) includes three flat surfaces (30) that are distributed symmetrically about said channel, said flat surfaces (30) co-operating with said insert (20) so as to center it relative to said expulsion channel (5).
4. A head according to claim 2 or claim 3, in which the accesses of the expulsion channel (5) to the spray channels (11) are formed between said projections.
5. A head according to any preceding claim, in which the central axis (X) of said insert (20) is offset from the central axis (Y) of the expulsion channel (5) by a

CORRECTED SHEET

distance that is less than 0.08 mm, and preferably less than 0.03 mm.

6. A spray head according to any preceding claim, in which said spray chamber (12) has a diameter of 1 mm.
7. A spray head according to any preceding claim, in which said spray orifice (1) has a diameter of 0.3 mm.
- 10 8. A set of spray heads manufactured from a common mold cavity, the set being characterized in that said heads are made according to any one of claims 1 to 7.
- 15 9. A set according to claim 8, in which the standard deviation of the offset of the central axis (X) of the insert (20) relative to the central axis (Y) of the expulsion channel (5) for any spray head coming from a common mold cavity is less than 0.05 mm, and advantageously less than 0.02 mm.
- 20 10. A fluid dispenser device characterized in that it includes a spray head according to any one of claims 1 to 7.

CORRECTED SHEET